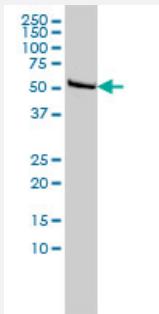


# DLD monoclonal antibody (M02), clone 3C1

Catalog # H00001738-M02

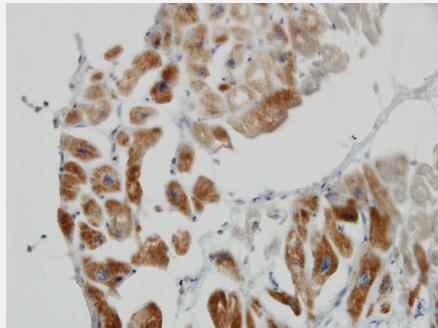
Size 100 ug

## Applications



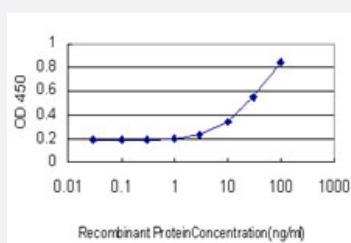
### Western Blot (Cell lysate)

DLD monoclonal antibody (M02), clone 3C1 Western Blot analysis of DLD expression in HeLa ( Cat # L013V1 ).



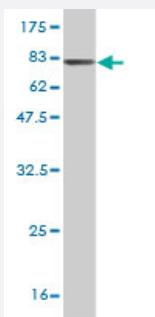
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to DLD on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DLD is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (81.73 KDa) .

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against a full length recombinant DLD.
<b>Immunogen</b>	DLD (AAH18696, 1 a.a. ~ 509 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	MQSWSRVYCSLAKRGHFNRISHGLQGLSAVPLRTYADQPIDADVTVIGSGPGGY/AAIKAAQLGF KTCIEKNETLGGTCLNVGCIPSKALLNNSHYYHMAHGKDFASRGIEMSEVRNLNDKMMEQKSTA VKALTGGIAHLFKQNKKVVHVNGYGKITGKNQVTATKADGGTQVIDTKNILIATGSEVTPFPGITIDEDTI VSSTGALSLKKVPEKMWVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGVGIDMEISKNFQRILQ KGQFKFKLNTKVTGATKKS DGKIDVSIEAASGGKAEVITCDVLLVCIGRRPFTKNLGLEELGIELDP RGRIPVNTRFQT KIPNIYAIGDVVAGPMLAHKAEDEGIICVEGMAGGAVIDYNCVPSVIYTHPEVAW VGKSEEQLKEEGIEYKVGVKFPAANSRAKTNADTDGMVKILGQKSTDRLVLAHILGPGAGEMVNE AALALEY GAS CEDIARVCHA HPTLSEAFREANLAASFGKSINF
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (95); Rat (95)
<b>Isotype</b>	IgG3 Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (81.73 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

DLD monoclonal antibody (M02), clone 3C1 Western Blot analysis of DLD expression in Hela ( Cat # L013V1 ).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to DLD on formalin-fixed paraffin-embedded human heart. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged DLD is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — DLD

Entrez GeneID	<a href="#">1738</a>
GeneBank Accession#	<a href="#">BC018696</a>
Protein Accession#	<a href="#">AAH18696</a>
Gene Name	DLD
Gene Alias	DLDH, E3, GCSL, LAD, PHE3
Gene Description	dihydrolipoamide dehydrogenase
Omim ID	<a href="#">238331 248600 256000</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene encodes the L protein of the mitochondrial glycine cleavage system. The L protein, also named dihydrolipoamide dehydrogenase, is also a component of the pyruvate dehydrogenase complex, the alpha-ketoglutarate dehydrogenase complex, and the branched-chain alpha-keto acid dehydrogenase complex. Mutations in this gene have been identified in patients with E3-deficient maple syrup urine disease and lipoamide dehydrogenase deficiency. [provided by RefSeq]

**Other Designations**

E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain ketone acid dehydrogenase complex|diaphorase|dihydrolipoyl dehydrogenase|glycine cleavage system protein L|lipoamide dehydrogenase|lipoamide reductase|lipoyl dehydrogenase

**Publication Reference**

- [Quantitative Analysis of HIV-1 Infected CD4+ Cell Proteome: Dysregulated Cell Cycle Progression and Nuclear Transport Coincide with Robust Virus Production.](#)

Chan EY, Qian WJ, Diamond DL, Liu T, Gritsenko MA, Monroe ME, Camp DG 2nd, Smith RD, Katze MG.

Journal of Virology 2007 May; 81(14):7571.

Application: WB, Human, Human CEMx174 cells

**Pathway**

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Citrate cycle \(TCA cycle\)](#)
- [Glycine](#)
- [Glycolysis / Gluconeogenesis](#)
- [Metabolic pathways](#)
- [Pyruvate metabolism](#)
- [Valine](#)

**Disease**

- [Alzheimer disease](#)